

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 84-63

WASTE DISCHARGE REQUIREMENTS FOR:

WESTINGHOUSE ELECTRIC CORPORATION
SUNNYVALE SITE
SUNNYVALE, SANTA CLARA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board) finds that:

1. Westinghouse Electric Corporation, hereinafter called the discharger, owns a 75 acre site in Sunnyvale, Santa Clara County, located to the west of the intersection of Fair Oaks and California Avenues.
2. Prior to 1964, electric apparatus, including electrical transformers containing poly-chlorinated biphenyl (PCB) fluid, was manufactured and serviced at this site. In 1964, production and servicing of marine products began. PCBs were not used at the site after this date.
3. Contamination at the site consists mainly of PCBs in shallow soils located along the perimeter fenceline, in residential back yards adjoining the western fenceline, in storage yard areas on the northern side of the property, and in former PCB storage area in the south-east corner of the site. Conditions in the southeast storage area differ from the remainder of the site in that contamination is not limited to the shallow soils, but rather has penetrated to deep soils and to groundwater.
4. The discharger has proposed to cleanup shallow soils along the perimeter fenceline and on adjacent residential properties as the first stage of the cleanup program. The discharger intends to initiate this work in the fall of 1984. The remainder of the cleanup effort will be initiated in 1985.
5. The Department of Health Services (DOHS) has indicated in a letter dated June 26, 1984, that all surface soils in the adjacent residential areas contaminated above 2 parts per million (ppm) and deeper soils contaminated above 50 ppm should be removed from the area. These criteria are intended to reduce to an acceptable level the carcinogenic risk from human exposure to PCBs remaining in the soil after cleanup.

6. Surface soil contamination poses a threat of limited discharge to surface waters due to wet weather erosion. Contamination of property adjacent to Westinghouse site is of special concern because the discharger has no control over soil disturbance in offsite areas and because soil disturbance tends to increase susceptibility to erosion. Discharge of PCB's even at low concentrations, is of concern because of the high toxicity and bio-accumulation potential of this compound in aquatic organisms.
7. Data submitted by Westinghouse indicates that the contamination of soils with PCB's above detectable levels on property adjacent to the western fence line is confined to the "Offsite Cleanup Areas" shown on Attachments 1, 2 and 3 on this Order and that contamination of soils with PCB's at concentrations greater than 50 ppm along the fence line is confined to the "Onsite Cleanup Areas" and "Cleanup Areas" areas shown on Attachments 1 through 4 to this Order. The maps on these Attachments are based on maps prepared by Brown and Caldwell dated 18 Sept 84 and on sampling results contained in letters from Mr. B.A. Kerns to Richard McMurtry dated August 31, 1984 and contained in reports: "Phase I, Data Collection and Interpretation" dated December 1981 and "Phase II, Site Investigation Report" dated June 1983.
8. Removal of contaminated surface soils in offsite areas where the discharger has no control over future soil disturbance is the most reliable method of preventing contaminated erosional discharge. The prevention of such discharge warrants the expenditure of additional funds by the discharger to effect such cleanup.
9. The Regional Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) on July 21, 1982. The Basin Plan contains water quality objectives for South San Francisco Bay and contiguous waters.
10. The beneficial uses of South San Francisco Bay and contiguous water bodies are:
 - ° Water Contact recreation
 - ° Non-contact water recreation
 - ° Wildlife Habitat
 - ° Estuarine Habitat
 - ° Warm and Cold Fresh Water Habitat
 - ° Fish migration
 - ° Industrial service and process supply
 - ° Navigation

11. These waste discharge requirements establish cleanup standards for the removal of contaminated soils along and immediately adjacent to the discharger's fence line and replacement of said soil with clean soil. This constitutes a minor modification to land and such activity is thereby exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 2100 et seq) in accordance with Section 15104, Chapter 3, Title 14, California Administrative Code.
12. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
13. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED THAT, Westinghouse Electric Corporation in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

- A. On property adjacent to the discharger's western fence line (designated as "Offsite Cleanup Areas" on maps shown on Attachments 1, 2, and 3 to this order), all soil contaminated with PCBs at a concentration greater than the reliable detection limit of 0.05mg/kg to a depth of 2 feet shall be removed to a legal point of disposal.
- B. Compliance with Requirement A may be demonstrated by removing all soil to a depth of 2 feet within the "Contaminated Offsite Areas" or by submitting analytical results showing non-detectable levels of PCB's (using detection limit specified in A above) in samples taken at 20 foot intervals along 2 representative transects within the "Contaminated Offsite Areas".
- C. Along the discharger's side of the western fence line (designated as "Onsite Cleanup Areas" on maps shown on Attachments 1, 2, and 3 of this Order) and along the discharger's eastern fence line (designated as "Cleanup Areas" on map shown on Attachment 4 to this Order), all soil contaminated with PCBs at a concentration greater than 50 ppm to a depth of 6" shall be removed to a legal point of disposal. Soil underlying the excavation shall be covered to prevent erosion of the underlying soil.

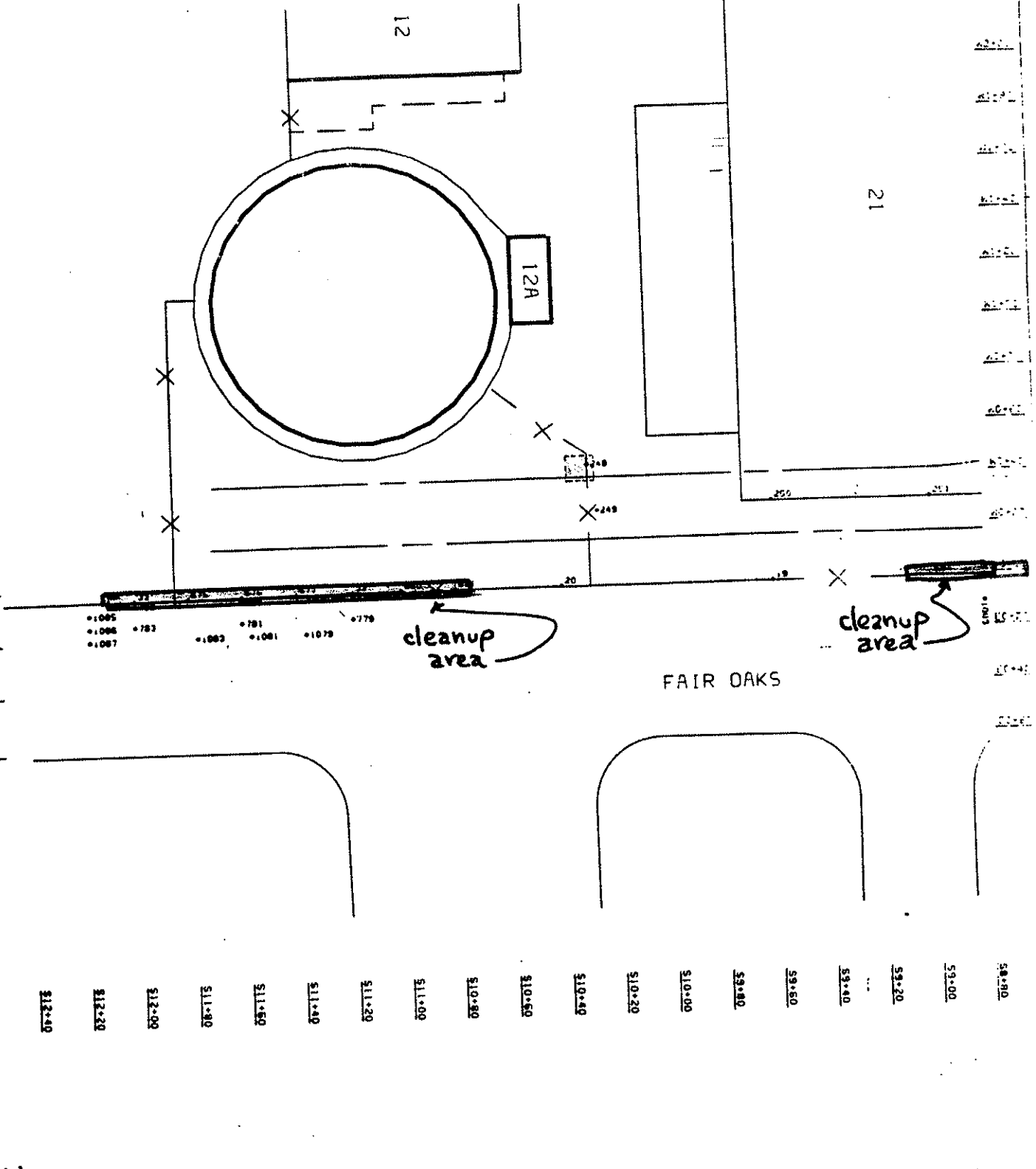
- D. These requirements do not relieve the discharger from responsibility for compliance with more stringent requirements as may be adopted by the Department of Health Services.
- E. The discharger shall submit by October 19, 1984 a time schedule to complete the fence line cleanup.
- F. In the event of any change in control or ownership of land presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be forwarded to this board.

I, Roger B. James, Executive Officer do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on September 19, 1984.

ROGER B. JAMES
Executive Officer

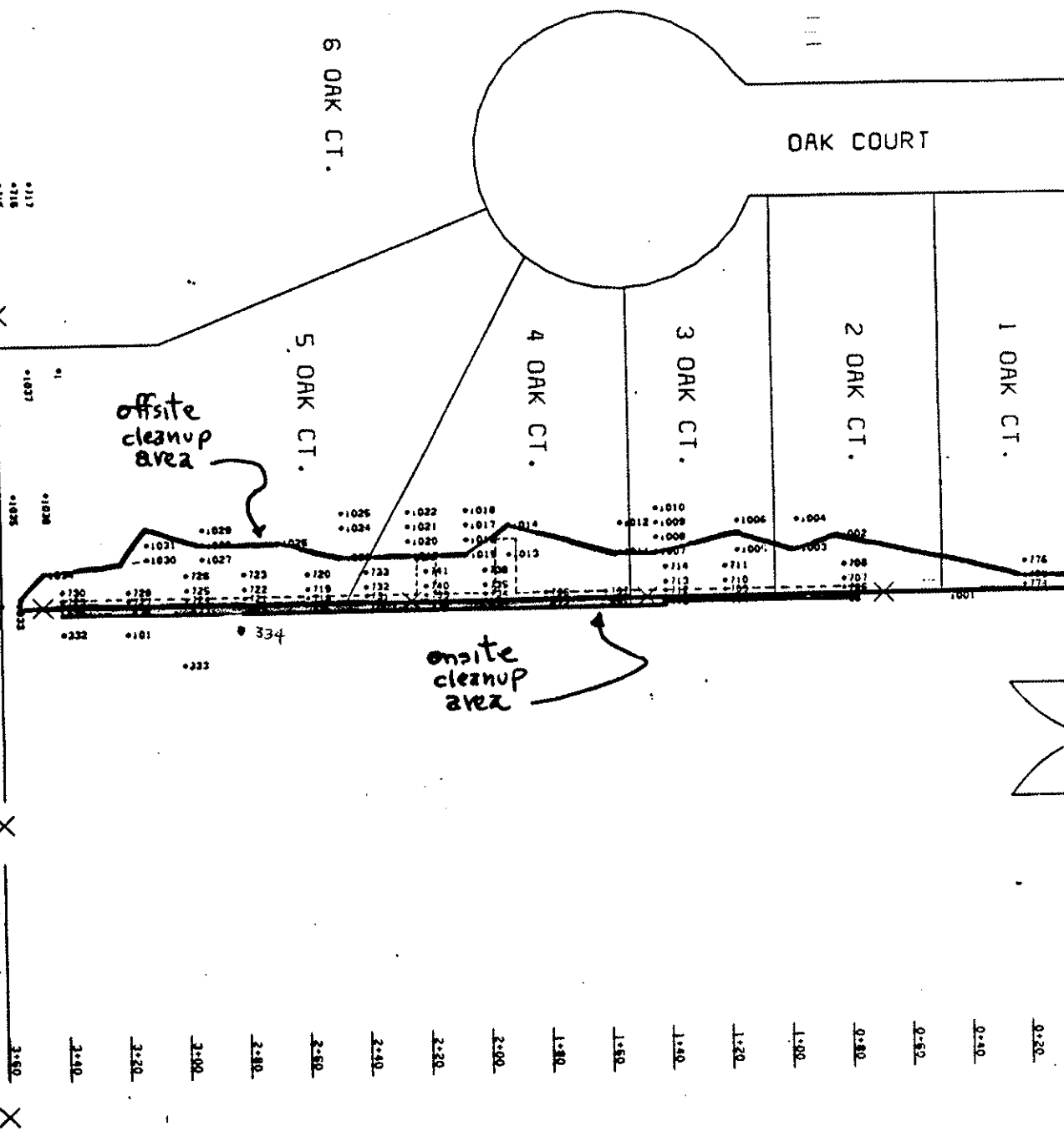
Attachments (4)

Attachment 4
 RWQCB Order 84-63



M21-1.0
 M21-4.0
 M21-2.0
 M21-3.0
 M20-1.0
 M20-4.0
 M20-2.0
 M20-3.0
 M19-1.0
 M19-4.0
 M19-2.0
 M19-3.0
 M18-1.0
 M18-4.0
 M18-2.0
 M18-3.0

CALIFORNIA AVE.



Attachment 1
 RWQCB Order 84-63



LEGEND:
 • 1001 SOIL SAMPLE LOCATION AND NUMBER
 — JUNE, 1983 WESTINGHOUSE PROPOSAL
 - - - - - SEPTEMBER, 1984 WESTINGHOUSE PROPOSAL

Exhibit 1

DESIGNED	SUBMITTED	DATE	WESTINGHOUSE ELECTRIC CORPORATION SUMMITVALE, CALIFORNIA	PHASE I SOIL EXCAVATION	DRAWING NUMBER G101B
CHECKED	APPROVED	DATE			

M24+00
M23+80
M23+60
M23+40
M23+20
M23+00
M22+80
M22+60
M22+40
M22+20
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M21+80
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M20+80
M20+60
M20+40

\$5+80

\$7+00

\$7+20

\$7+40

\$7+60

\$7+80

\$8+00

\$8+20

\$8+40

\$8+60

\$8+80

\$9+00

\$9+20

\$9+40

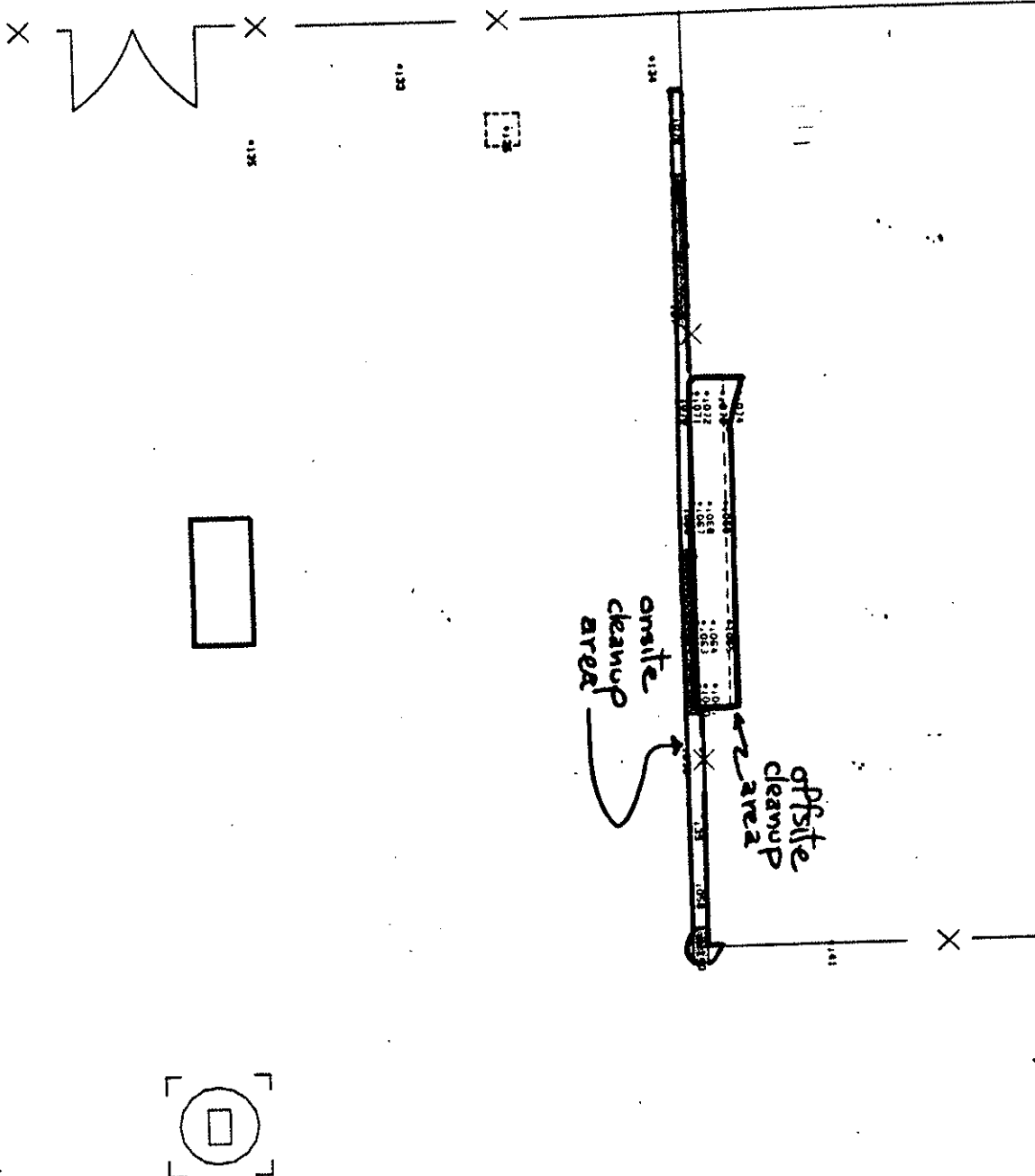
\$9+60

\$9+80

\$10+00

Attachment 3
RWQC8 order 04-63

SUNNYVALE AVE.



SCALE: 1" = 20'-0"

LEGEND:
• 100' SOIL SAMPLE LOCATION AND NUMBER
--- JUNE, 1983 WESTINGHOUSE PROPOSAL
--- SEPTEMBER, 1988 WESTINGHOUSE PROPOSAL

Exhibit 3

DESIGNED BY DATE	SUBMITTED BY DATE	WESTINGHOUSE ELECTRIC CORPORATION SUNNYVALE, CALIFORNIA	PHASE I SOIL EXCAVATION	PROJECT NO. DATE
CHECKED BY DATE	APPROVED BY DATE			

G103B